

Title (en)
COMPOUNDS THAT MODULATE THE ACTIVITY OF PTP-1B AND TC-PTP

Title (de)
VERBINDUNGEN ZUR MODULIERUNG DER AKTIVITÄT VON PTP-1B UND TC-PTP

Title (fr)
COMPOSES MODULANT L'ACTIVITE DE PTP-1B ET DE TC-PTP

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Abstract (en)
[origin: WO03073987A2] The present invention relates to a new and improved method for treating diabetes and or its associated complications by modulating the activity of protein tyrosin phosphatase 1B ("PTP-1B"). The inventive compounds modulate the activity PTP-1B by binding to a novel binding site referred herein as the PTP-1B exosite that is distal to the active site of PTP-1B. The present invention also relates to a new and improved method of treating immune system disorders by modulating the activity of T-cell protein tyrosine phosphatase ("TC-PTP"). The inventive compound modulate the activity of TC-PTP by binding to a novel binding site referred herein as the TC-PTP exosite that is distal to the active site of PTP-1B.

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Citation (search report)
• [X] WO 0204458 A1 20020117 - NOVO NORDISK AS [DK], et al
• [X] WO 0170754 A1 20010927 - MERCK FROSST CANADA INC [CA], et al
• [A] WO 9958519 A1 19991118 - AMERICAN HOME PROD [US]
• [A] BRIAN P. KENNEDY ET AL.: "Protein tyrosine phosphatase-1B in diabetes", BIOCHEMICAL PHARMACOLOGY, vol. 60, 2000, pages 877 - 883, XP002431163
• See references of WO 03073987A2

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